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<221> VARIANT
 <222> (9)...(9)
<223> Xaa is Arg, Asn, Asp, Glu or Gly
<221> VARIANT
<222> (10)...(10)
<223> Xaa is Gln, Leu or Gly
<221> VARIANT
<222> (11) ... (11)
<223> Xaa is Ala, Trp or Tyr
<221> VARIANT
<222> (12)...(12)
<223> Xaa is Ala, Gly, His, Phe, Thr or Val
<221> VARIANT
<222> (14)...(14)
<223> Xaa is Asn, Gln, Phe, Ser or Val
<221> VARIANT
<222> (15)...(15)
<223> Xaa is Arg, Leu, Pro or Ser
<221> VARIANT
<222> (16) ... (16)
<223> Xaa is Leu, Ser, Trp or Tyr
<400> 1
Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa
<210> 2
<211> 16
<212> PRT
<213> Artificial Sequence
<223> Family of preferred CEA binding moieties
<221> VARIANT
<222> 1
<223> Xaa is Asn or Asp
<221> VARIANT
<222> 6
<223> Xaa is Phe, Met, Leu or Asn
<221> VARIANT
<222> 7
<223> Xaa is Asp, Gly, Ile, Lys, Phe or Thr
<221> VARIANT
<222> 9
<223> Xaa is Arg, Asn, Asp, Glu, Gly or Trp
```

```
<221> VARIANT
<222> 12
 <223> Xaa is Ala, Gly, His, Phe, Thr, Tyr or Val
<221> VARIANT
<222> (15)...(15)
<223> Xaa is Arg, Leu, Pro or Ser
<221> VARIANT
<222> (16)...(16)
<223> Xaa is Leu, Ser, Trp or Tyr
<400> 2
Xaa Trp Val Cys Glu Xaa Xaa Lys Xaa Gln Trp Xaa Cys Asn Xaa Xaa
<210> 3
<211> 10
<212> PRT
<213> Artificial Sequence
<220>
<223> CEA binding loop
<221> VARIANT
<222> 2
<223> Xaa is Asn, Glu or Met
<221> VARIANT
<222> 3
<223> Xaa is Asn, Leu, Met or Phe
<221> VARIANT
<222> 4
<223> Xaa is Asp, Gly, Ile, Lys, Phe or Thr
<221> VARIANT
<223> Xaa is Ala, Gln, Gly, Lys or Thr
<221> VARIANT
<222> 6
<223> Xaa is Arg, Asn, Asp, Glu or Gly
<221> VARIANT
<222> (7)...(7)
<223> Xaa is Gln, Gly or Leu
<221> VARIANT
<222> (8)...(8)
<223> Xaa is Ala, Trp or Tyr
<221> VARIANT
<222> (9)...(9)
<223> Xaa is Ala, Gly, His, Phe, Thr or Val
```

```
<400> 3
 Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys
                  5
 <210> 4
 <211> 16
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> CEA binding polypeptide
 <400> 4
 Asn Trp Val Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asn Ser Tyr
 <210> 5
 <211> 16
 <212> PRT
 <213> Artificial Sequence
 <223> CEA binding polypeptide
 <400> 5
Asp Trp Val Cys Glu Asn Lys Lys Asp Gln Trp Thr Cys Asn Leu Leu
 1
                                     10
<210> 6
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> CEA binding polypeptide
<400> 6
Asn Trp Asp Cys Met Phe Gly Ala Glu Gly Trp Ala Cys Ser Pro Trp
<210> 7
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> CEA binding polypeptide
Asp Trp Val Cys Glu Lys Thr Thr Gly Gly Tyr Val Cys Gln Pro Leu
                 5
```

```
<210> 8
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> CEA binding polypeptide
<400> 8
Asn Trp Phe Cys Glu Met Ile Gly Arg Gln Trp Gly Cys Val Pro Ser
<210> 9
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> CEA binding polypeptide
Asp Trp Val Cys Asn Phe Asp Gln Gly Leu Ala His Cys Phe Pro Ser
<210> 10
<211> 12
<212> PRT
<213> Artificial Sequence
<220>
<223> Parental domain for design of microprotein display
      library
<221> VARIANT
<222> (1)...(12)
<223> amino acid positions 4 and 9 are invariant Cys;
      all other positions Xaa are varied but not Cys, to
      provide a library of 2x10(8) different peptides
      based on the template sequence
<221> VARIANT
<222> 1, 2, 3, 5, 6, 7, 8, 10, 11, 12
<223> Xaa = Any Amino Acid except Cys
<400> 10
Xaa Xaa Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa
                                    10
<210> 11
<211> 11
<212> PRT
<213> Artificial Sequence
<220>
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<222> (1)...(16)

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<223> Parental domain for design of microprotein display
      library
<221> VARIANT
<222> (1)...(11)
<223> amino acid positions 3 and 9 are invariant Cys;
      all other positions Xaa are varied but not Cys, to
      provide a library of 1x10(9) different peptides
      based on the template sequence
<221> VARIANT
<222> 1, 2, 4, 5, 6, 7, 8, 10, 11
<223> Xaa = Any Amino Acid except Cys
<400> 11
Xaa Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa
<210> 12
<211> 12
<212> PRT
<213> Artificial Sequence
<220>
<223> Parental domain for design of microprotein display
      library
<221> VARIANT
<222> (1) . . . (12)
<223> amino acid positions 3 and 10 are invariant Cys;
      all other positions Xaa are varied but not Cys, to
      provide a library of 1x10(9) different peptides
      based on the template sequence
<221> VARIANT
<222> 1, 2, 4, 5, 6, 7, 8, 9, 11, 12
<223> Xaa = Any Amino Acid except Cys
<400> 12
Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa
                 5
<210> 13
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> Parental domain for design of microprotein display
      library
<221> VARIANT
```

<223> amino acid positions 4 and 13 are invariant Cys;

all other positions Xaa are varied but not Cys, to

provide a library of 2.5x10(8) different peptides based on the template sequence

```
<221> VARIANT
```

- <222> 1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 14, 15, 16
- <223> Xaa = Any Amino Acid except Cys
- <400> 13

Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa 1 5 10 15

- <210> 14
- <211> 16
- <212> PRT
- <213> Artificial Sequence
- <220s
- <223> Variable sublibrary sequence used in designing
 focused secondary library
- <221> VARIANT
- <222> (1) ... (3)
- <223> Xaa is any amino acid except Cys
- <221> VARIANT
- <222> (5)...(6)
- <223> Xaa is any amino acid except Cys
- <221> VARIANT
- <222> 1, 2, 3, 5, 6
- <223> Xaa = Any Amino Acid except Cys
- <400> 14

Xaa Xaa Xaa Cys Xaa Xaa Lys Lys Asp Gln Trp Thr Cys Asn Leu Leu 1 5 10 15

- <210> 15
- <211> 16
- <212> PRT
- <213> Artificial Sequence
- <220>
- <223> Variable sublibrary sequence used in designing focused secondary library
- <221> VARIANT
- <222> (5)...(9)
- <223> Xaa is any amino acid except Cys
- <221> VARIANT
- <222> 5, 6, 7, 8, 9
- <223> Xaa = Any Amino Acid except Cys



```
Asp Trp Val Cys Xaa Xaa Xaa Xaa Gln Trp Thr Cys Asn Leu Leu
<210> 16
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> Variable sublibrary sequence used in designing
      focused secondary library
<221> VARIANT
<222> (8)...(12)
<223> Xaa is any amino acid except Cys
<221> VARIANT
<222> 8, 9, 10, 11, 12
<223> Xaa = Any Amino Acid except Cys
Asp Trp Val Cys Glu Asn Lys Xaa Xaa Xaa Xaa Cys Asn Leu Leu
<210> 17
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> Variable sublibrary sequence used in designing
      focused secondary library
<221> VARIANT
<222> (11)...(12)
<223> Xaa is any amino acid except Cys
<221> VARIANT
<222> (14)...(16)
<223> Xaa is any amino acid except Cys
<221> VARIANT
<222> 11, 12, 14, 15, 16
<223> Xaa = Any Amino Acid except Cys
<400> 17
Asp Trp Val Cys Glu Asn Lys Lys Asp Gln Xaa Xaa Cys Xaa Xaa Xaa
<210> 18
<211> 16
<212> PRT
```

<213> Artificial Sequence

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<220>
<223> Variable sublibrary sequence used in designing
      focused secondary library
<221> VARIANT
<222> (6) ... (7)
<223> Xaa is any amino acid except Cys
<221> VARIANT
<222> 9
<223> Xaa is any amino acid except Cys
<221> VARIANT
<222> 12
<223> Xaa is any amino acid except Cys
<221> VARIANT
<222> 15
<223> Xaa is any amino acid except Cys
<221> VARIANT
<222> 6, 7, 9, 12, 15
<223> Xaa = Any Amino Acid except Cys
<400> 18
Asp Trp Val Cys Glu Xaa Xaa Lys Xaa Gln Trp Xaa Cys Asn Xaa Leu
<210> 19
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> Variable sublibrary sequence used in designing
      focused secondary library
<221> VARIANT
<222> (5)...(7)
<223> Xaa is any amino acid except Cys
<221> VARIANT
<222> 9
<223> Xaa is any amino acid except Cys
<221> VARIANT
<222> 12
<223> Xaa is any amino acid except Cys
<221> VARIANT
<222> 5, 6, 7, 9, 12
<223> Xaa = Any Amino Acid except Cys
<400> 19
Asn Trp Val Cys Xaa Xaa Xaa Lys Xaa Gln Trp Xaa Cys Asn Ser Tyr
                 5
```

```
<210> 20
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> Variable sublibrary sequence used in designing
      focused secondary library
<221> VARIANT
<222> 1
<223> Xaa is any amino acid except Cys
<221> VARIANT
<222> 3
<223> Xaa is any amino acid except Cys
<221> VARIANT
<222> (14)...(16)
<223> Xaa is any amino acid except Cys
<221> VARIANT
<222> 1, 3, 14, 15, 16
<223> Xaa = Any Amino Acid except Cys
<400> 20
Xaa Trp Xaa Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Xaa Xaa Xaa
                                     10
<210> 21
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> Isolate of TN10/9 library found not to bind CEA
<400> 21
Asn Trp Arg Cys Lys Leu Phe Pro Arg Tyr Pro Tyr Cys Ser Ser Trp
<210> 22
<211> 15
<212> PRT
<213> Artificial Sequence
<223> Isolate of TN10/9 library found not to bind CEA
<400> 22
Arg Tyr Cys Glu Phe Phe Pro Trp Ser Leu His Cys Gly Arg Pro
                 5
```



```
<210> 23
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> Conserved amino acid positions in first family of
      CEA binding peptides
<221> VARIANT
<222> 6
<223> X is Asn, Leu, Met or Phe
<221> VARIANT
<222> 7
<223> X is Asp, Gly, Ile, Lys, Phe or Thr
<221> VARIANT
<222> 9
<223> X is Arg, Asn, Asp, Glu or Gly
<221> VARIANT
<222> 12
<223> X is Ala, Gly, His, Phe, Thr or Val
<221> VARIANT
<222> 15
<223> X is Arg, Leu, Pro or Ser
<400> 23
Asp Trp Val Cys Glu Xaa Xaa Lys Xaa Gln Trp Xaa Cys Asn Xaa Leu
 1
                 5
<210> 24
<211> 27
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic CEA binding peptide with C-terminal
      immobilization sequence
<400> 24
Ser Asn Trp Val Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asn Ser
Tyr Ala Pro Gly Gly Glu Gly Gly Ser Lys
<210> 25
<211> 27
<212> PRT
<213> Artificial Sequence
```



```
<220>
<223> Synthetic CEA binding peptide with C-terminal
      immobilization sequence
<400> 25
Ser Asp Trp Val Cys Glu Asn Lys Lys Asp Gln Trp Thr Cys Asn Leu
Leu Ala Pro Gly Gly Glu Gly Gly Ser Lys
<210> 26
<211> 27
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic CEA binding peptide with C-terminal
      immobilization sequence
<400> 26
Ser Asn Trp Asp Cys Met Phe Gly Ala Glu Gly Trp Ala Cys Ser Pro
                                    10
Trp Ala Pro Gly Gly Glu Gly Gly Ser Lys
            20
<210> 27
<211> 27
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic CEA binding peptide with C-terminal
      immobilization sequence
<400> 27
Ser Asp Trp Val Cys Glu Leu Thr Thr Gly Gly Tyr Val Cys Gln Pro
Leu Ala Pro Gly Gly Glu Gly Gly Ser Lys
            20
<210> 28
<211> 10
<212> PRT
<213> Artificial Sequence
<223> C-terminal sequence for immobilizing peptides
<400> 28
Ala Pro Gly Gly Glu Gly Gly Ser Lys
```

```
<210> 29
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> Template sequence for sublibrary used in
      construction of focused secondary display library
<221> VARIANT
<222> (1) ... (3)
<223> X is any amino acid except Cys
<221> VARIANT
<222> (5)...(6)
<223> X is any amino acid except Cys
<221> VARIANT
<222> 1, 2, 3, 5, 6
<223> Xaa = Any Amino Acid except Cys
<400> 29
Xaa Xaa Cys Xaa Xaa Lys Lys Asp Gln Trp Thr Cys Asn Leu Leu
                 5
<210> 30
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> Template sequence for sublibrary used in
      construction of focused secondary display library
<221> VARIANT
<222> (5)...(9)
<223> X is any amino acid except Cys
<221> VARIANT
<222> 5, 6, 7, 8, 9
<223> Xaa = Any Amino Acid except Cys
<400> 30
Asp Trp Val Cys Xaa Xaa Xaa Xaa Gln Trp Thr Cys Asn Leu Leu
<210> 31
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> Template sequence for sublibrary used in
```

construction of focused secondary display library

```
<221> VARIANT
<222> (8) ... (12)
<223> X is any amino acid except Cys
<221> VARIANT
<222> 8, 9, 10, 11, 12
<223> Xaa = Any Amino Acid except Cys
<400> 31
Asp Trp Val Cys Glu Asn Lys Xaa Xaa Xaa Xaa Xaa Cys Asn Leu Leu
<210> 32
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> Template sequence for sublibrary used in
      construction of focused secondary display library
<221> VARIANT
<222> (11) ... (12)
<223> X is any amino acid except Cys
<221> VARIANT
<222> (14)...(16)
<223> X is any amino acid except Cys
<221> VARIANT
<222> 11, 12, 14, 15, 16
<223> Xaa = Any Amino Acid except Cys
<400> 32
Asp Trp Val Cys Glu Asn Lys Lys Asp Gln Xaa Xaa Cys Xaa Xaa Xaa
<210> 33
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> Template sequence for sublibrary used in
      construction of focused secondary display library
<221> VARIANT
<222> (6) ... (7)
<223> X is any amino acid except Cys
<221> VARIANT
<222> 9
```

<223> X is any amino acid except Cys

```
<221> VARIANT
<222> 12
<223> X is any amino acid except Cys
<221> VARIANT
<222> 15
<223> X is any amino acid except Cys
<221> VARIANT
<222> 6, 7, 9, 12, 15
<223> Xaa = Any Amino Acid except Cys
<400> 33
Asp Trp Val Cys Glu Xaa Xaa Lys Xaa Gln Trp Xaa Cys Asn Xaa Leu
<210> 34
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> Template sequence for sublibrary used in
      construction of focused secondary display library
<221> VARIANT
<222> (5)...(7)
<223> X is any amino acid except Cys
<221> VARIANT
<222> 9
<223> X is any amino acid except Cys
<221> VARIANT
<222> 12
<223> X is any amino acid except Cys
<221> VARIANT
<222> 5, 6, 7, 9, 12
<223> Xaa = Any Amino Acid except Cys
<400> 34
Asn Trp Val Cys Xaa Xaa Xaa Lys Xaa Gln Trp Xaa Cys Asn Ser Tyr
<210> 35
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> Template sequence for sublibrary used in
      construction of focused secondary display library
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```
<221> VARIANT
<222> 1
<223> X is any amino acid except Cys
<221> VARIANT
<222> 3
<223> X is any amino acid except Cys
<221> VARIANT
<222> (14)...(16)
<223> X is any amino acid except Cys
<221> VARIANT
<222> 1, 3, 14, 15, 16
<223> Xaa = Any Amino Acid except Cys
<400> 35
Xaa Trp Xaa Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Xaa Xaa Xaa
<210> 36
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> Family of CEA binding polypeptides
<221> VARIANT
<222> 1
<223> Xaa is Asp, Asn, Ala or Ile
<221> VARIANT
<222> 3
<223> Xaa is Val, Ile, Met, Tyr, Phe, Pro or Asp
<221> VARIANT
<222> 5
<223> Xaa is Asn, Glu or Asp
<221> VARIANT
<223> Xaa is Leu, Phe, Tyr, Trp, Val, Met, Ile or Asn
<221> VARIANT
<223> Xaa is Phe, Leu, Asp, Glu, Ala, Ile, Lys, Asn,
      Ser, Val, Trp or Tyr
<221> VARIANT
<222> (8)...(8)
<223> Xaa is Lys, Phe, Asp, Gly, Leu, Asn or Trp
<221> VARIANT
<222> (9)...(9)
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<223> Xaa is Asn, Pro, Phe, Gly, Asp, Ala, Ser, Glu, Gln

<400> 38

```
or Trp
<221> VARIANT
<222> (10)...(10)
<223> Xaa is Gln or Lys
<221> VARIANT
<222> (12)...(12)
<223> Xaa is Phe, Thr, Met, Ser, Ala, Asn, Val, His,
      Ile, Pro, Trp or Tyr
<221> VARIANT
<222> (14)...(14)
<223> Xaa is Asn, Asp, Glu, Pro, Gln or Ser
<221> VARIANT
<222> (15)...(15)
<223> Xaa is Val, Leu, Ile, Pro, Ala, Gln, Ser, Met,
      Glu, Thr, Lys or Trp
<221> VARIANT
<222> (16)...(16)
<223> Xaa is Leu, Met, Val, Tyr, Ala, Ile, Trp, His,
      Pro, Gln, Glu, Phe, Lys or Arg
<400> 36
Xaa Trp Xaa Cys Xaa Xaa Xaa Xaa Xaa Trp Xaa Cys Xaa Xaa Xaa
                 5
<210> 37
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> CEA binding polypeptide
<400> 37
Asp Trp Met Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asp Leu Met
                                     10
<210> 38
<211> 16
<212> PRT
<213> Artificial Sequence
<223> CEA binding polypeptide
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Asp Trp Val Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asp Leu Met

```
<210> 39
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> CEA binding polypeptide
<400> 39
Asp Trp Ile Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asp Gln Met
                  5
<210> 40
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> CEA binding polypeptide
Asn Trp Ile Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asp Gln Glu
<210> 41
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> CEA binding polypeptide
<400> 41
Asp Trp Ile Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Gln Val Lys
<210> 42
<211> 16
<212> PRT
<213> Artificial Sequence
<223> CEA binding polypeptide
<400> 42
Asp Trp Val Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asp Val Met
<210> 43
<211> 16
<212> PRT
<213> Artificial Sequence
```



```
<223> CEA binding polypeptide
<400> 43
Asp Trp Met Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asp Gln Ile
                                     10
<210> 44
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> CEA binding polypeptide
<400> 44
Ile Trp Asp Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Pro Ala Pro
<210> 45
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> CEA binding polypeptide
Asp Trp Ile Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asp Ile Arg
 1
                 5
<210> 46
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> CEA binding polypeptide
Asp Trp Met Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asp Val Val
<210> 47
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> CEA binding polypeptide
```



```
<400> 47
Asp Trp Ile Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asp Ala Ile
 <210> 48
 <211> 16
 <212> PRT
 <213> Artificial Sequence
<220>
<223> CEA binding polypeptide
<400> 48
Asp Trp Ile Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asp Met Ala
<210> 49
<211> 16
<212> PRT
<213> Artificial Sequence
<223> CEA binding polypeptide
<400> 49
Asp Trp Val Cys Glu Phe Leu Lys Met Gln Trp Ala Cys Asn Val Leu
 1
<210> 50
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> CEA binding polypeptide
<400> 50
Asp Trp Val Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asn Val Met
<210> 51
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> CEA binding polypeptide
Ala Trp Pro Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Pro Pro Gln
```



```
<210> 52
<211> 16
<212> PRT
<213> Artificial Sequence
<223> CEA binding polypeptide
<400> 52
Asp Trp Val Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asp Val Leu
<210> 53
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> CEA binding polypeptide
<400> 53
Asp Trp Val Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asp Lys Trp
                 5
<210> 54
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> CEA binding polypeptide
<400> 54
Asp Trp Val Cys Glu Trp Leu Lys Met Gln Trp Ala Cys Asn Met Leu
<210> 55
<211> 16
<212> PRT
<213> Artificial Sequence
<223> CEA binding polypeptide
<400> 55
Asp Trp Val Cys Asp Phe Phe Phe Asn Gln Trp Thr Cys Asn Leu Leu
<210> 56
<211> 16
<212> PRT
<213> Artificial Sequence
```

```
<220>
<223> CEA binding polypeptide
<400> 56
Asp Trp Val Cys Glu Met Phe Lys Ala Gln Trp Phe Cys Asn Ala Leu
<210> 57
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> CEA binding polypeptide
<400> 57
Asp Trp Ile Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asp Ala Trp
<210> 58
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> CEA binding polypeptide
<400> 58
Asp Trp Val Cys Asn Leu Phe Lys Asn Gln Trp Phe Cys Asp Val Trp
                 5
<210> 59
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> CEA binding polypeptide
Asp Trp Val Cys Glu Tyr Phe Lys Asn Gln Trp Phe Cys Asn Val Leu
<210> 60
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> CEA binding polypeptide
```



```
<400> 60
Asp Trp Val Cys Glu Ile Asp Lys Gly Gln Trp Thr Cys Asn Pro Leu
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A DOCPHOENIX

APPL PARTS	NPL	CTNF
IMIS /	OATH	
Internal Misc. Paper	Oath or Declaration	CTRS
LET. V	PET	EXIN
Misc. Incoming Letter	Petition	Examiner Interview
371P	RETMAIL	M903
PCT Papers in a 371Application	Mail Returned by USPS	DO/EO Acceptance
A	SEQLIST	M905
Amendment Including Elections	Sequence Listing	DO/EO Missing Requirement
ABST	Specification SPEC	NFDR
Abstract	Specification	Formal Drawing Required
ADS	SPEC NO	NOA
Application Data Sheet	Specification Not in English	Notice of Allowance
AF/D	TRNA	PETDEC
Affidavit or Exhibit Received	Transmittal New Application	Petition Decision
Appendix		
ARTIFACT	OUTGOING	INCOMING
Artifact		INCOMING
BIB	CTMS	AP.B
Bib Data Sheet	Misc. Office Action	Appeal Brief
CLM	1449	C.AD Change of Address
Claim	Signed 1449	Change of Address
COMPUTER	892	N/AP
Computer Program Listing	892	Notice of Appeal
CRFL	Abandonment ABN	PA
All CRF Papers for Backfile		Change in Power of Attorney
DIST	APDEC	REM
Terminal Disclaimer Filed	Board of Appeals Decision	Applicant Remarks in Amendment
DRW	APEA	XT/
Drawings	Examiner Answer	Extension of Time filed separate
FOR	CTAV	
Foreign Reference	Count Advisory Action	•
FRPR	CTEQ	
Foreign Priority Papers	Count Ex parte Quayle	
IDS Including 1449	CTFR Count Final Rejection	File Wrapper
Internal	ECBOX	FWCLM
III.CIIIAI	Evidence Copy Box Identification	File Wrapper Claim
SRNT	WCLM	IIFW
Examiner Search Notes	Claim Worksheet	File Wrapper Issue Information

WFEE

Fee Worksheet

SRFW File Wrapper Search Info

CLMPTO PTO Prepared Complete Claim Set